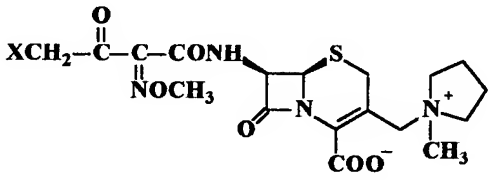
ABSTRACT

A novel process is disclosed for the preparation of Cefepime, a cephalosporin antibiotic, using novel new intermediates of the general Formula,



where X represents Bromine or Chlorine atom

This process comprises the step of cyclizing the bromo or chloro intermediate with thiourea to produce Cefepime of high purity. A process to prepare bromo or chloro intermediate comprising the acylation of 7-Amino-3-[(1-methyl-1-pyrrolidinium)methyl]-3-cephem-4-carboxylate with 4-halo-2-methoxyimino-3-oxobutyric acid halide is also described.